

Product Name :
General Cycle Air Conditioning Test Rig

Product Code :
NLAB-ENGINEERINGLB34003



Description :

General Cycle Air Conditioning Test Rig

Technical Specification :

PRODUCT DESCRIPTION:

The A.C. test rig works on simple vapour compression refrigeration cycle using R-134a as a refrigerant. The system is fabricated such that student can study all the air conditioning processes. It is also useful to understand working of all the components of system, their performance and control etc.

All the components are mounted on the display board, so that students can observe their working easily.

TECHNICAL SPECIFICATIONS:

C/A PRO RATED TEST CONDITIONS	
COMPRESSOR	COMPRESSOR SEALED. MAKE: EMERSON CLIMATE TECH.OR ANY EQUIVALENT MAKE.
CONDENSER	CONDENSER CONVECTION AIR COOLED.
CONDENSER FAN	
DRYER	
EXPANSION DEVICE	
EVAPORATOR	EVAPORATOR CONVECTION AIR COOLED.
GENERATOR	GENERATOR AXIAL FLOW TYPE

	DIFFUSER OR HEATER. REHEATER	
	DIFFUSER	
	REFRIGERANT	
	RECOPRODUCT / OR INDOSS OR ANY EQUIVALENT MAKE.	
	TEMPERATURE FACILITY WITH DIGITAL DISPLAY.	
	PRESSURE TYPE PRESSURE GAUGES.	
	SEASURFLOMETER PROVIDED.	

TEMPERATURE MEASUREMENT BY SLING PSYCHROMETER.	
AIR FLOW MEASUREMENT METER.	
SUPPLY VOLTAGE, 50 HZ, 1 PHASE.	
INPUT POWER	
RATED CURRENT	
PROVIDED FOR COMPRESSOR AND HEATER.	
ENERGY METER PROVIDED FOR COMPRESSOR	
MATERIAL 12 MM THICK CRCA	

POWER RATING	
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LIST OF EXPERIMENTS:

- To evaluate the tonnage capacity of the air conditioning system by enthalpy difference method.
- To evaluate actual and theoretical C.O.P. of the system.
- To plot the refrigeration cycle on P-H & T-S charts.
- To plot the psychometric processes on psychometric charts.

Naugralabequipments

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